

1. (Currently Amended) A UV radiation curable primer coating composition comprising
  - a. 5 to 50 % by weight of one or more compounds containing one ethylenically unsaturated free-radically polymerizable group per molecule
  - b. 5 to 50% by weight of one or more compounds containing two or more ethylenically unsaturated free radically polymerizable groups per molecule
  - c. 1.0 to 60% by weight of one or more pigments, fillers and or dyes
  - d. 0.1 to 0.95 % by weight photoinitiators
  - e. 0 to 20% by weight of volatile organic solvent and
  - f. 0.1 to 10% by weight of additives,
 wherein said coating is curable to a non-tacky surface under only a-UVA radiation emitting lamp within 2 minutes and in sunlight within 5 minutes.
  
2. (Previously Amended) A primer coating composition according to claim 1 wherein the compound (a) is selected from the group consisting of 1-octene, 1-hexene, 1-decene, vinyl acetate, styrene, alpha-methylstyrene, p-methylstyrene, esters of methacrylic acid and esters of acrylic acid and mixtures thereof.
  
3. (Currently Amended) A primer coating according to claim 1 wherein compound (a) is selected from the group consisting of butyl acrylate, t-butyl acrylate, isobornyl acrylate, isodecyl acrylate, 2-ethylhexyl acrylate, lauryl acrylate, cyclohexyl acrylate and octyl acrylate and mixtures thereof.
  
4. (Currently Amended) A primer coating composition according to claim 1 wherein compound b is selected from the group consisting of ; urethane diacrylates, urethane triacrylates, tetra-functional urethane acrylates and hexa functional urethane acrylates and mixtures thereof.
  
5. (Previously Amended) A primer coating according to claim 1 wherein compound b is selected from the group consisting of hexanediol diacrylate, tripropyleneglycol diacrylate, trimethylolpropane triacrylate, alkoxyated trimethylolpropane triacrylate, pentaerythritol triacrylate, pentaerythritol tetraacrylate, dipentaerythritol

hexaacrylate, unsaturated polyesters, and mixtures thereof.

6. (Previously Amended) A primer coating according to claim 1 wherein compound b is selected from the group consisting of di-functional, tetra-functional and hexa-functional urethane acrylates and mixtures thereof.
7. (Original) A primer coating composition according to claim 1 wherein the pigment to binder ratio is between 0.8 and 2.0.
8. (Original) A primer coating composition according to claim 1 wherein the pigment to binder ratio is between 1.2 and 1.8.
9. (Original) A primer coating composition according to claim 1 wherein the photoinitiator comprises a compound selected from the group consisting of acyl phosphine oxides and benziketals.
10. (Original) A primer coating composition according to claim 1 wherein said coating is cured to a tack free surface by 5 minute exposure to outdoor light having an intensity of 45-65 mJoules/cm<sup>2</sup> and demonstrates 95% post humidity test adhesion.
11. (Currently Amended) A process for applying a primer coating composition to a substrate comprising
  - A. applying a UV radiation curable primer to a substrate;
  - B. curing the primer with a source selected from the group consisting of one or more UV lamps having a UV-B:UV-A ratio of 1:1 or less, ~~and~~ natural outdoor light having a wavelength between 320 and 430 nm, and mixtures thereof, to obtain a tack free surface after 2-5 minutes,
 wherein the UV radiation curable primer comprises
  - a. 5 to 50 % by weight of one or more compounds containing one ethylenically unsaturated free-radically polymerizable group per molecule,

- b. 5 to 50% by weight of one or more compounds containing two or more ethylenically unsaturated free radically polymerizable groups per molecule,
  - c. 1.0 to 60% by weight of one or more pigments, fillers and or dyes,
  - d. 0.1 to 0.95 % by weight photoinitiators,
  - e. 0 to 20% by weight of volatile organic solvent and
  - f. 0.1 to 10% by weight of additives.
12. (Currently Amended) A process according to claim 11 wherein the coating applied comprises compound (a) is selected from the group consisting of 1-octene, 1-hexene, 1-decene, vinyl acetate, styrene, alpha-methylstyrene, p-methylstyrene, esters of methacrylic acid, and esters of acrylic acid and mixtures thereof.
13. (Currently Amended) A process according to claim 11 wherein the coating applied comprises compound (a) selected from butyl acrylate, t-butyl acrylate, isobornyl acrylate, isodecyl acrylate, 2-ethylhexyl acrylate, lauryl acrylate, cyclohexyl acrylate, and octyl acrylate and mixtures thereof.
14. (Previously Amended) A process according to claim 11 wherein the coating applied comprises compound (b) selected from the group consisting of, urethane diacrylates, tri-functional urethane acrylates, tetrafunctional urethane acrylates and hexa-functional urethane acrylates and mixtures thereof.
15. (Original) A process according to claim 11 wherein the coating applied comprises a pigment to binder ratio between 0.8 and 2.0.
16. (Original) A process according to claim 11 wherein the coating applied comprises a pigment to binder ratio between 1.2 and 1.8.
17. (Original) A process according to claim 11 wherein a UV light source is applied wherein the UVA intensity is from 0.8 to 1.6 Joules/cm<sup>2</sup>, and the UVB intensity is from .001 to 0.5 Joules/cm<sup>2</sup>.

18. (Original) A process according to claim 11 wherein the coating is cured under natural light conditions, said light providing an intensity of 5-100 mJoules/ cm<sup>2</sup>.